



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
CHATTANOOGA ENVIRONMENTAL FIELD OFFICE
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CHATTANOOGA, TENNESSEE 37402
PHONE (423) 634-5745 STATEWIDE 1-888-891-8332 FAX (423) 634-6389

AMY ✓
MSB ✓
File - Tricor Dairy
BCCX
2016
(Bledsoe)

April 25, 2016

Mr. Rick Smith
Farm Manager
TRICOR-BCCX-Dairy Farm
286 Lake E. Russell Rd.
Pikeville, TN 37367

Subject: Compliance Evaluation Inspection (CAFO)
Permit No. SOPCD0004

Dear Mr. Smith:

On March 22, 2016 Ms. Janet Connior and Mr. Justin Green of the Division of Water Resources performed a Compliance Evaluation Inspection of TRICOR-Dairy in Pikeville TN. The purpose of the inspection was to determine the facility's compliance with the terms and conditions of SOPCD-0004.

CEI Results

Permit

TRICOR's Notice of Coverage SOPCD0004 became effective on April 25, 2012. CAFO General State Operating Permit SOPCD0000 expired on October 31, 2015. Coverage under this general permit has been administratively extended until the new version is issued. Once the new general permit (SOPCI0000) becomes effective, operations will have 90 days to apply for coverage under the general permit.

The new version of the general permit will not contain an allowance for a discharge due to rainfall events. Permitted operations will need to manage their lagoons in a manner that does not allow a discharge to occur. If an operation prefers to have an allowance for a rainfall related discharge, coverage under an individual NPDES permit is needed.

Records and Reports

Copy of CNMP is kept on site. All records were intact and available for review. 2015 and 2016 Annual Reports have been received by this office.

Comprehensive Nutrient Management Plan (CNMP)

TRICOR is following their CNMP.

Manure Management

Dairy wastewater is routed to a lagoon for storage. Lagoon had adequate freeboard at the time of inspection. Manure is being land applied in accordance with the CNMP. Manure

April 25, 2016

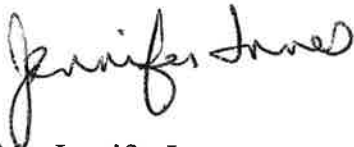
Page 2

was currently being applied to field 8H, 8C and 9H at the time of the inspection. Necessary buffers are in place based on visual observation of wheel tracks made by land application equipment.

The Division would like to thank Mr. Smith for his time and cooperation during our inspection.

If you have any questions concerning our inspection, please contact Ms. Young at 634-5708.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jennifer Innes".

Ms. Jennifer Innes
Program Manager
Division of Water Resources
Chattanooga Field Office

Cc: Enforcement and Compliance, Division Water Resources, Nashville, TN (electronic)

File
Tricor BCCX Dairy
TN DEPT OF ENVIRONMENT
AND CONSERVATION

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DIV OF WATER RESOURCES
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2015 CAFO ANNUAL REPORT

(CONCENTRATED ANIMAL FEEDING OPERATION)

Permit Tracking No. SOPCD0004 Expired as of October 31, 2015

Operating under CN-1147 Notice of Intent submitted October 19, 2015

For

TRICOR BCCX DAIRY FARM

286 Lake E Russell Rd.
Pikeville, Tennessee 37367
Phone: (423) 881-3653

January 15, 2015

The following Concentrated Animal Feeding Operation annual report is for the TRICOR BCCX Dairy Farm, Permit Tracking No.SOPC0004 and CN-1147 Notice of Intent, dated October 19, 2015.

2015 CAFO Nutrient Management Summary

The number and type of animals on site whether in open confinement or housed under roof. TRICOR's herd consisted of 184 lactating cows, 21 dry cows, 79 breeding heifers, 117 heifer calves, 15 herd bulls and 62 bull calves/steers. (Yearly Average)

Estimated amount of total manure, litter and process wastewater generated by the CAFO in the previous calendar year (tons/gallons). An estimated total of 3,545 tons of solids and 2,500,000 gallons of liquid manure generated from all sources. (NMP Manure Inventory Annual Summary)

Estimated amount of total manure, litter and process wastewater transferred to a 3rd party by the CAFO in the previous calendar year (tons/ gallons). None, no manure, litter or process wastewater from any source was transferred to a third party.

Total number of acres for land application covered by the nutrient management plan. 494.7 (481.0 spreadable) acres were available for land application as determined by NMP.

Total number of acres under control of the CAFO that were used for land application of manure, litter and process wastewater in the previous calendar year. An estimated total of 458.56 acres were utilized for land application of manure.

A summary of all manure, litter and process wastewater discharges to waters of the state from the production area that have occurred in the previous calendar year, including date, time, and approximate volume. No discharges were realized from production containment area. Lagoon reached near maximum capacity February 13, 2015 and again on June 19, 2015. Additional pumping and applications were made to prevent discharge. Applications made to pastures and hay fields with lowest risk of run off and lowest levels of (P) per soil test analysis. Lagoon levels were lowered to 0-19" in July 2015 and 0-30" in November 2015. Overflow pond emptied to contain any potential lagoon discharge. Farm recorded 64.30 inches annual rainfall.

A statement indicating whether the current version of the CAFO's nutrient management plan was developed or approved by a certified nutrient management planner. TRICOR's current NMP was developed and written by a contracted Technical Service Provider, John Donaldson in conjunction with Validus Ventures LLC's Conservation Planner, Mark Berkland; Certification Credentials; TSP-03-2117. TRICOR's Nutrient Management Plan conclusion date is October 31, 2016.

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AND CONSERVATION
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The actual crop(s) planted and actual yield(s) for each field.

CAFO Annual Report For 2015

TRICOR BCCX FARM CROP & YEILD SUMMARY

Field #	Acres Planted	Crop	Yield Tons	Notes
*1C	16	Sowed Fescue/Clover for hay	0	Not Cut
2C	19	2014 Rye Cover	17	HM Baleage
2C	19.8	Soy Beans	1,148	Bushels
*3C	3.7	Soy Beans	140	Bushels
5C	12	2014 Wheat Cover	15	HM Baleage
5C	12	Corn Silage	172	Conventional Till Direct Seeded
5C	12	2015 Wheat Cover	0	Cover Crop Broadcast
6C	45	2014 Wheat Cover	0	Cover Crop Tilled Under
6C	45	Corn Silage	396	Conventional Till Direct Seeded
6C	35	2015 Wheat Cover	0	Cover Crop Broadcast
7C	35	2014 Wheat Cover	0	Cover Crop Tilled Under
7C	35	Corn Silage	474	Conventional Till Direct Seeded
7C	35	2015 Wheat Cover	0	Cover Crop Broadcast
8C	40	Soy Beans	1,880	Bushels
9C	12	2014 Rye Cover	0	Cover Crop Tilled Under
9C	12	Corn Silage	164	Conventional Till Direct Seeded
10C	16.7	Soy Beans	885	Bushels
2H	20.14	Hay	28	Mixed/Dry Rolls
3H	12	Hay	10	Mixed/Dry Rolls
*3HC	22	Corn Silage	309	No-Till
*4HC	5.5	Corn Silage	97	Conventional Till Direct Seeded
*5HC	7.5	Corn Silage	125	Conventional Till Direct Seeded
6H	17	Hay	38	Mixed/Dry Rolls
*7HC	33	Corn Silage	383	No-Till
*7HC	33	2015 Rye Cover	0	Cover Crop Broadcast
8H	26	Hay	22	Mixed/Dry Rolls
9H	32	Hay	20	Rolled Baleage
10H	59	Hay	32	Mixed/Dry Rolls
*10HC	20	Corn Silage	255	No-Till
*11H	7	Hay	29	Mixed/Dry Rolls
*12H	45	Hay	45	Mixed/Dry Rolls
*13H	8	Hay	6	Mixed/Dry Rolls

*14H	12	Soy Beans	100	Bushels
*15H	16.5	Soy Beans	150	Bushels
*23PB	11	Soybeans	455	Bushels
*24PC	15	2014 Rye Cover	13	HM Baleage
*24PC	15	Corn Silage	221	Conventional Till Direct Seeded
*26PB	10	Soybeans	336	Bushels
*27PB2	23	Soybeans	839	Bushels
*27PB1	7.5	Soybeans	263	Bushels
*1C	16	Listed on NMP map as crop, rotated to hay.		
*3C	5	Added, not listed on NMP map, utilized portion of field 12H as 3C.		
*3H	32	Listed on NMP map as hay, utilized portion for corn.		
*4H	8	Listed on NMP map as hay, utilized portion for corn.		
*5H	18	Listed on NMP map as hay, utilized portion for corn.		
*7H	39	Listed on NMP map as hay, utilized portion for corn.		
*10H	82	Listed on NMP map as hay, utilized portion for pasture & corn.		
*11H	7	Listed on NMP map as hay, 30.38 acres mitigated wetland.		
*12H	45	Added not listed on NMP map, utilized 3.7 acres as 3C for beans.		
*13H	10	Added, not listed on NMP map (geothermal field), hay.		
*14H	12	Added, not listed on NMP map.		
*15H	16.5	Added, not listed on NMP map.		
*23P	55	Listed on NMP map as pasture, utilized portion for beans.		
*24P	12	Listed on NMP map as pasture, utilized portion for corn.		
*26PB	17	Listed on NMP map as pasture, utilized portion for beans.		
*27PB2	46	Listed on NMP map as pasture, utilized portion for beans.		
*27PB1	7.5	Listed on NMP map as pasture, utilized portion for beans.		

The actual nitrogen and phosphorus content of the manure, litter and process wastewater; See analysis attachments. (2)

MANURE ANALYSIS

TEST TYPE / Component	As Received			As Received			As Received			As Received		
	Lbs/Ton	Lbs/1000 Gal		Lbs/Ton	Lbs/1000 Gal		Lbs/Ton	Lbs/1000 Gal		Lbs/Ton	Lbs/1000 Gal	
A1--Cattle-Liquid > 6 Mo. 3/25/2014 3/22/2015 sample 1 10/22/2015 sample 6 10/22/2015 sample 6												
Nitrogen	0.15	0.3	1.2	0.024	0.5	2.1	0.025	0.5	2.1	0.027	0.5	2.2
Ammonia Nitrogen	0.19	0.4	1.5	0	0	0	0.025	0.5	2	0.023	0.5	1.6
Organic Nitrogen	-0.004	-0.1	-0.3	0.024	0.5	2.1	0.001	0	0	0.004	0.1	0.4
Phosphorus (P)	0.005	0.1	0.4	0.062	1.2	5.3	0.008	0.2	0.7	0.012	0.2	1
Phosphate Equivalent (P2O5)	0.011	0.2	0.9	0.141	2.8	12.2	0.019	0.4	1.6	0.028	0.6	2.3
Potassium (K)	0.031	0.6	2.5	0.061	1.2	5.2	0.044	0.9	3.6	0.038	0.8	3.1
Potash Equivalent (K2O)	0.038	0.8	3	0.073	1.5	6.3	0.053	1.1	4.4	0.046	0.9	3.7
Total Solids	0.33			17.68			0.33			1.12		
Density	97 kg/m ³	10.3 lbs/cu ft	8.06 lbs/gal	103 kg/m ³	11.3 lbs/cu ft	9.63 lbs/gal	98 kg/m ³	11.4 lbs/cu ft	9.31 lbs/gal	98 kg/m ³	11.3 lbs/cu ft	9.31 lbs/gal
A2--Cattle-Liquid > 6 Mo. 3/25/2014												
Nitrogen	0.006	0.1	0.5									
Ammonia Nitrogen	0.006	0.1	0.5									
Organic Nitrogen	0	0	0									
Phosphorus (P)	0.006	0.1	0.5									
Phosphate Equivalent (P2O5)	0.013	0.3	1									
Potassium (K)	0.032	0.6	2.6									
Potash Equivalent (K2O)	0.038	0.8	3.1									
Total Solids	0.34											
Density	98 kg/m ³	10.3 lbs/cu ft	8.20 lbs/gal									
B-1--Cattle-Liquid 3-6 Mo. 7/17/2014												
Nitrogen	0.138	2.8	11.4									
Ammonia Nitrogen	0.001	0	0.1									
Organic Nitrogen	0.137	2.7	11.2									
Phosphorus (P)	0.026	0.5	2.1									
Phosphate Equivalent (P2O5)	0.058	1.2	4.8									
Potassium (K)	0.047	0.9	3.9									
Potash Equivalent (K2O)	0.057	1.1	4.7									
Total Solids	2.82											
Density	99 kg/m ³	11.5 lbs/cu ft	9.23 lbs/gal									

MANURE ANALYSIS

TEST TYPE / Component	As Received			As Received			As Received			As Received		
	Lbs/Ton	Lbs/1000 Gal		Lbs/Ton	Lbs/1000 Gal		Lbs/Ton	Lbs/1000 Gal		Lbs/Ton	Lbs/1000 Gal	
B-2--Cattle-Solid < 6 Mo. 7/17/2014 12/22/2015 sample 3 12/22/2015 sample 5												
Nitrogen	0.302	5.3	21.7	0.515	10.3	44.1						
Ammonia Nitrogen	0.024	0.5	1.9	0	0	0						
Organic Nitrogen	0.239	4.8	19.8	0.515	10.3	44.1						
Phosphorus (P)	0.008	1.8	7.3	0.237	4.7	20.4						
Phosphate Equivalent (P2O5)	0.202	4	16.7	0.544	10.9	46.8						
Potassium (K)	0.258	3.2	13.1	0.696	13.9	59.9						
Potash Equivalent (K2O)	0.191	3.8	15.8	0.516	10.3	47.3						
Total Solids	12.69			27.05								
Density	99 kg/m ³	11.9 lbs/cu ft	9.23 lbs/gal	100 kg/m ³	11.9 lbs/cu ft	9.61 lbs/gal						
C-1--Cattle-Liquid < 6 Mo. 12/22/2014 12/22/2015 sample 5												
Nitrogen	0.047	0.9	3.8	0.395	7.9	34.2						
Ammonia Nitrogen	0.001	0	0.1	0.006	0.1	0.4						
Organic Nitrogen	0.046	0.9	3.7	0.357	7.1	30.9						
Phosphorus (P)	0.101	0.2	0.8	0.134	2.7	11.0						
Phosphate Equivalent (P2O5)	0.074	0.5	1.9	0.308	6.2	26.1						
Potassium (K)	0.039	0.8	3.2	0.279	5.6	24.2						
Potash Equivalent (K2O)	0.047	0.9	3.8	0.336	6.7	29.1						
Total Solids	1.31			15.66								
Density	98 kg/m ³	10.9 lbs/cu ft	8.45 lbs/gal	100 kg/m ³	11.9 lbs/cu ft	9.61 lbs/gal						
C-2--Cattle-solid > 6 Mo. 12/22/2014 12/22/2015 sample 2												
Nitrogen	0.365	7.1	29.2	0.336	6.7	30.9						
Ammonia Nitrogen	0.069	1.4	5.5	0	0	0						
Organic Nitrogen	0.296	5.9	23.6	0.336	6.7	30.9						
Phosphorus (P)	0.101	2	8.1	0.301	6	26.1						
Phosphate Equivalent (P2O5)	0.237	4.6	18.5	0.451	9.2	42.4						
Potassium (K)	0.173	3.5	13.9	0.333	6.7	30.8						
Potash Equivalent (K2O)	0.208	4.2	16.7	0.401	8	36.8						
Total Solids	25.97			25.35								
Density	98 kg/m ³	10.9 lbs/cu ft	8.45 lbs/gal	100 kg/m ³	11.9 lbs/cu ft	9.61 lbs/gal						

The results of calculations to determine the maximum amount of manure, litter and process wastewater to be land applied and the data used in the calculations. Manure solids are weighed onboard spreader, averaging 6 tons per load. Liquid manure was pumped into a 4,300 gallon liquid surface spreader tank averaging 4,300 gallons per load.

The actual amount of manure, litter and process wastewater applied during the previous 12 months. 510 tons of manure solids, 4,459,100 gallons wastewater applied.

The results of any soil tests for nitrogen and phosphorus conducted in the previous 12 months. (99) soil analyses were taken to determine nutrient requirements for our next NMP. Results of (39) samples taken in June 2015 are included, (1) Attachment. (59) samples taken in December 2015 are in process of analysis. Soil analysis taken in 2011 was used to determine current NMP base line data.

SOIL TEST REPORT

Soil Test Results															
Sample ID	Date Tested	Water (pH)	Buffer Value	Phosphorus (ppm)	Potassium (ppm)	Calcium (ppm)	Magnesium (ppm)	Zinc (ppm)	Iron (ppm)	Manganese (ppm)	Boron (ppm)	Sodium (ppm)	Sulfur (ppm)	Nitrates (ppm)	
17P	6/24/2014	5.4	7.6	19	128	1188	117	1.8	48	56	0.1	19			
24P-1	6/16/2015	6.0		195	33	2739	209								
24P-2	6/16/2015	6.7		178	112	2706	202								
24P-3	6/16/2015	5.8	7.5	159	74	1687	153								
24P-4	6/16/2015	6.0	7.5	110	57	1667	173								
24P-5	6/16/2015	5.9	7.5	67	75	1727	157								
24P-6	6/16/2015	6.2		88	98	2256	174								
24P-7	6/16/2015	6.4		146	228	2500	209								
24P-8	6/16/2015	6.5		174	288	2562	221								
24P-9	6/16/2015	6.4		158	136	2671	219								
26P-8	6/24/2014	5.5	7.7	120	90	1692	249	0.1	56	57	0.2	18			
3H-1	6/16/2015	6.1		10	129	2087	197								
3H-2	6/16/2015	6.1		10	105	1593	118								
3H-3	6/16/2015	6.3		57	166	1955	164								
3H-4	6/16/2015	7.1		199	177	6805	183								
4H-1	6/16/2015	6.1		31	264	1554	129								
5C-1	6/16/2015	6.6		70	285	1701	201								
5C-2	6/16/2015	6.4		69	207	1599	218								
6C-1	6/16/2015	7.1		27	136	2772	273								
6C-2	6/16/2015	6.0	7.5	41	159	1335	223								
6C-3	6/16/2015	6.5		32	199	1411	270								
7B-C	6/16/2015	6.1		77	65	1467	158								
7C-1	6/16/2015	6.5		25	139	2213	176								
7C-2	6/16/2015	6.1	7.5	31	133	1628	158								
7C-3	6/16/2015	6.8	7.5	12	129	1738	79								
7C-4	6/16/2015	5.1	7.5	37	146	510	23								
7C-5	6/16/2015	5.6	7.5	23	89	1191	64								
7C-8	6/24/2014	4.7	7.5	37	157	457	30	0.1	46	53	0.0	6			
7H-1	6/16/2015	6.7		29	83	2743	150								
7H-2	6/16/2015	6.9		98	126	5679	189								
8C	6/24/2014	6.0	7.7	12	71	1546	194	0.1	39	50	0.1	19			
9H-1	6/16/2015	6.4		12	44	2386	77								
9H-10	6/16/2015	6.1		8	61	1592	84								
9H-11	6/16/2015	6.4		9	60	2192	103								
9H-12	6/16/2015	6.4		10	72	2121	109								
9H-2	6/16/2015	6.0	7.5	11	41	1432	87								
9H-3	6/16/2015	6.2		10	55	1742	100								
9H-4	6/16/2015	6.1		17	81	1596	101								
9H-5	6/16/2015	6.3		17	42	1842	67								
9H-6	6/16/2015	6.3		9	60	1547	106								
9H-7	6/16/2015	6.1		10	83	1827	91								
9H-8	6/16/2015	6.2		8	99	1787	93								
9H-9	6/16/2015	6.2		11	78	1701	101								
HH	6/24/2014	5.6	7.6	9	70	1446	75	0.1	35	76	0.0	11			
MT	6/24/2014	5.7	7.6	10	97	3540	91	0.2	45	16	0.2	18			

The amount of any supplemental fertilizer applied during the previous 12 months. The following amounts of commercial fertilizer was applied during 2015, 15.465 tons of urea nitrogen, 4.136 tons potash to fields listed below. Commercial fertilizer applications were according to NMP recommendations or according to on file soil analysis for fields not included in NMP.

CAFO Annual Report For 2015

TRICOR BCCX FARM SUPPLEMENTAL FERTILIZER SUMMARY

Field #	Acres	Crop	NPK	Total Lbs. NPK
3HC	22	Corn Silage	150-0-160	330-0-352
4HC	5.5	Corn Silage	150-0-160	825-0-880
5C	12	Corn Silage	150-0-160	1800-0-1920
9C	12	Corn Silage	150-0-160	1800-0-1920
10HC	20	Corn Silage	150-0-160	3000-0-3200
5HC	7.5	Corn Silage	150-0-0	1125-0-0
6C	45	Corn Silage	150-0-0	6750-0-0
7C	35	Corn Silage	150-0-0	5250-0-0
7HC	33	Corn Silage	150-0-0	4950-0-0
24PC	15	Corn Silage	150-0-0	2250-0-0
10C/*1C	16	Hay	150-0-160	2850-0-3040
*10C planted in beans instead of corn, fertilizer used on newly established hay field 1C				

The operations aim is to address water quality and soil erosion concerns related to the dairy's concentrated animal feeding operation as determined by TRICOR's Nutrient Management Plan. It is a new plan, implementing new practices. New processes and data collection methods continue to be developed to reflect actual conditions and refine TRICOR's NMP.

Report submitted,
By; Rick Smith, FSII
For; David Hart, Chief Operations Officer
Through: Roger Clark, Agriculture Operations Manager
And Tom Burns, Assistant Farm Manager

Water Compliance Inspection Report

Info
Tricor BCC &
Deery

Section A: National Data System Coding (i.e., PCS)

Transaction Code N	NPDES	yr/mo/day	Inspection Type {	Inspector	Fac Type 2
Remarks					
Inspection Work Days	Facility Self-Monitoring Evaluation Rating	BI	QA	-----Reserved-----	

Section B: Facility Data

Name and Location of Facility Inspected <i>Tricor Bledsae Co.</i>	Entry Time/Date <i>10:30</i>	Permit Effective Date <i>April 25 2012</i>
	Exit Time/Date <i>12:15</i>	Permit Expiration Date <i>OCT. 31 2015</i>
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)		Other Facility Data (e.g., SIC NAICS, and other descriptive information)
Name, Address of Responsible Official/Title/Phone and Fax Number		

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Pretreatment	MS4
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedules	<input type="checkbox"/> Pollution Prevention	
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Laboratory	<input checked="" type="checkbox"/> Storm Water	
<input type="checkbox"/> Effluent/Receiving Waters	<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input type="checkbox"/> Flow Measurement	<input checked="" type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes	SEV Description
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<i>Following NMP as</i>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<i>directed with no</i>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<i>discharge since last</i>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<i>inspection</i>

Name(s) and Signature(s) of Inspector(s) <i>Justin Green</i> <i>[Signature]</i>	Agency/Office/Phone and Fax Numbers <i>TOEC DWR</i> <i>423 949 6241 P/F 423 949 2466</i>	Date <i>3-22-16</i>
Signature of Management Q A Reviewer	Agency/Office/Phone and Fax Numbers	Date

NPDES CAFO Water Compliance Inspection Report

Date 3-22-16

Entry Time 10:20

Weather Conditions Sunny 63°

State Inspector(s)

Justin Green / Janet Connor

1. FACILITY

Facility Name

raiser

Latitude/Longitude

35°45' N / 85°14' W

Type of Operation

Dairy

Number of Animals

422

158 / 15 Dry / 187 # / 62 S+B

Number of Animals in Confinement

173

☒ 45 days or more

Animals have direct contact with Waters

☒ no

☐ yes, explain

~~Nearest Waters~~ Fenced Ponds with limited access + bill waterers

Nearest Waters

☐ 303(d) listed, for

Bee Creek

25-year, 24 hour rainfall amount for this location

include source

Description of Facility

Dairy with mature lagoon

Facility Map

2. PERMIT

Permit Number

508490000 / 508490004

☐ individual ☐ general

☒ copy available on site

Date Issued

April 25, 2012

Expiration Date

Oct 31, 2015

Number of Animals the Facility is permitted for

275

Compliance Schedule ☐ no ☐ yes, provide a brief description

3. NUTRIENT MANAGEMENT PLAN (NMP)

Facility has NMP

☒ yes

☒ copy available on site

☐ copy maintained at farm office at another location

☐ no

☐ the Facility has a nutrient budget

☐ the Facility has an environmental management plan

Prepared by a Certified Planner

☒ yes ☐ no

Includes Maps of Production and Land Application Areas

☒ yes ☐ no

4. RECORD KEEPING

Inspections of Waste Storage System

☒ yes ☐ no ☐ some, explain

Liquid Systems, Freeboard Records

☒ yes ☐ no ☐ some, explain

☐ not a liquid system

Inspection of Storm Water Controls

☒ yes ☐ no ☐ some, explain

Rainfall

☒ yes ☐ no ☐ some, explain

Records of Manure Transferred Off Site

☐ yes ☒ no ☐ some, explain

Records of Land Application of Manure

☒ yes ☐ no ☐ some, explain

Maintenance Reports

i.e. equipment calibrations

☒ yes ☐ no ☐ some, explain

Annual Reports

☒ yes ☐ no ☐ some, explain

Required Training for Employees

☒ yes ☐ no ☐ some, explain

Emergency Response Plan

☒ yes ☐ no

5. MONITORING RECORDS

Soil Sample(s) ☒ yes ☐ no ☐ some, explain

Manure Samples ☒ yes ☐ no ☐ some, explain

6. MANURE MANAGEMENT (STORAGE)

Manure Storage Structure(s)

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> holding pond | <input checked="" type="checkbox"/> clay lined | <input type="checkbox"/> synthetic lining |
| <input checked="" type="checkbox"/> lagoon | <input type="checkbox"/> aerobic digestion | <input type="checkbox"/> anaerobic digestion |
| | <input checked="" type="checkbox"/> clay lined | <input type="checkbox"/> synthetic lining |
| <input type="checkbox"/> concrete structure | | |
| <input checked="" type="checkbox"/> under house structure | — some area of loafing area is under roof | |
| <input type="checkbox"/> manure pack house | | |
| <input checked="" type="checkbox"/> manure lot | <input checked="" type="checkbox"/> concrete slab | <input type="checkbox"/> tarp/cover |
| <input type="checkbox"/> composting | | |
| <input type="checkbox"/> other | | |

Description of Storage Structure(s)

manure is scraped to first holding area where liquid is drained to lagoon and solids allowed to dry for application. lagoon is then followed by smaller storage pool in case of an overflow.

Designed to NRCS or State Required Standards ☐ yes
☐ no
☐ do not know

Sketch or Photo of Manure Management Structure(s)

Visual Inspection of Structure

Structure(s) appears to be maintained to state standards ☐ yes ☒ no ☐ concerns, explain

Structure(s) appears to be sound ☒ yes ☐ no ☐ concerns, explain

Rain gauge installed and maintained ☒ yes ☐ no ☐ monitor rainfall by

Structure(s) maintain liquid waste ☒ yes ☐ no

Banks are maintained ☒ yes ☐ no

Marker is present to gauge freeboard ☒ yes ☐ no

Freeboard ☒ yes ☐ no

Concerns

7. MANURE MANAGEMENT (UTILIZATION OF NUTRENTS)

Manure Transferred Off Site ☐ yes ☒ no ☐ some, explain

The Facility is following state approved protocols for transfer of manure ☐ yes ☐ no ☐ some, explain

NMP Calculated Application Rates and Areas for Application ☒ yes ☐ no

Manure is Land Applied on Farm ☒ yes ☐ no ☐ some, explain

Description of Land Application System

Dry spread + liquid spread, mostly liquid

The Facility has Adequate Land ☒ yes ☐ no ☐ some, explain

Facility has a schedule for Land Application and is following the schedule ☒ yes ☐ no ☐ some, explain

Facility has appropriate setbacks and buffers ☒ yes ☐ no ☐ some, explain

10. OTHER WASTE GENERATED

Waste Generated	Storage	Disposal

Concerns

DISCHARGES

Has the Facility had a Discharge?

☒ no

☐ yes

☐ date _____

☐ reported to the State and/or EPA

☐ description of discharge

☐ sampling, description

Description of Actions taken

EXIT INTERVIEW

Exit Time

12:15

	Mortality Rate			Cull Rate		Heifers		Heifer Mortality Rate			Bull/Steer Mortality Rate			Steers			DOA Rate			
	Total Herd	# Died	% Died	# Culled	% Culled	Heifers < 6	# Died	% Died	Heifers > 6	# Died	% Died	Bull Calves	# Died	% Died	Steers Sold	# Died	% Died	Births	DOA's	% DOA
Jul-15	213	1	0.47%	18	8.45%	42	0	0.00%	114	0	0.00%	13	0	0.00%	44	1	2.27%	10	27	2 7.41%
Aug-15	205	0	0.00%	6	2.93%	45	0	0.00%	107	0	0.00%	17	1	5.88%	38	0	0.00%	0	27	3 11.11%
Sep-15	209	1	0.48%	0	0.00%	53	0	0.00%	104	1	0.96%	17	0	0.00%	48	0	0.00%	16	17	1 5.88%
Oct-15	211	0	0.00%	25	11.85%	54	0	0.00%	104	0	0.00%	12	0	0.00%	45	0	0.00%	17	31	5 16.13%
Nov-15	196	0	0.00%	22	11.22%	62	1	1.61%	99	0	0.00%	14	1	7.14%	38	0	0.00%	0	23	3 13.04%
Dec-15	180	0	0.00%	6	3.33%	58	1	1.72%	157	1	0.64%	19	0	0.00%	40	0	0.00%	13	13	1 7.69%
Jan-16	181	3	1.66%	13	7.18%	62	0	0.00%	140	0	0.00%	16	0	0.00%	36	1	2.78%	0	12	0 0.00%
Feb-16	171	3	1.75%	12	7.02%	53	1	1.89%	147	0	0.00%	13	1	7.69%	46	0	0.00%	0	11	1 9.09%
Mar-16	162	0	0.00%	0	0.00%	47	0	0.00%	149	0	0.00%	12	0	0.00%	50	0	0.00%	16	6	1 16.67%
Apr-16		#DIV/0!		#DIV/0!				#DIV/0!	0	#DIV/0!			#DIV/0!			#DIV/0!				#DIV/0!
May-16		#DIV/0!		#DIV/0!				#DIV/0!	0	#DIV/0!			#DIV/0!			#DIV/0!				#DIV/0!
Jun-16		#DIV/0!		#DIV/0!				#DIV/0!	0	#DIV/0!			#DIV/0!			#DIV/0!				#DIV/0!
YTD Avg.	192	8	4.17%	11	5.90%			0.65%			0.20%			2.59%			0.63%		167	17 10.18%

Industry Average Cull Rate: 5%-29%
Industry Average Mortality Rate: 5%
Industry Average DOA Rate: 6%

Visual Inspection of Land Application Areas

Field Identification	Crop Growing	BMPs / (Buffers)	Concerns
8C	cover	Applied	
9H	Hay		
8H	Hay	visual evidence of tracks suggest Buffers are being acknowledged	

Sketch or Photo of Application Areas

8. MORTALITY MANAGEMENT

Mortality Management According to the NMP

- ☐ burial
- ☐ incineration
- ☐ rendering
- ☒ composting

NMP gives specifies location for mortality management ☒ yes ☐ no

NMP specifies management required ☒ yes ☐ no

Visual Inspection of Mortality Site

Mortality Management On Site

- ☐ burial
- ☐ incineration
- ☐ rendering
- ☒ composting

Facility is Managing Mortality According to the NMP ☒ yes ☐ no

Concerns

9. CHEMICAL MANAGEMENT

NMP addresses the storage, handling and management of all chemicals ☒ yes ☐ no

Chemicals stored on site

- ☐ fertilizer
- ☒ herbicides
- ☒ pesticides
- ☒ cleaning supplies
- ☒ fuel
- ☒ veterinary
- ☐ other

Method of Disposal of Chemicals

As per Label

Visual Inspection of Chemical Storage

Facility is managing chemicals according to the NMP ☒ yes ☐ no

Concerns



**STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
CHATTANOOGA ENVIRONMENTAL FIELD OFFICE
540 McCALLIE AVENUE, SUITE 550
CHATTANOOGA, TENNESSEE 37402
PHONE (423) 634-5745 STATEWIDE 1-888-891-8332 FAX (423) 634-6389**

March 17, 2014

Mr. Rick Smith
Farm Manager
TRICOR-BCCX-Dairy Farm
286 Lake E. Russell Rd.
Pikeville, TN 37367

Subject: Compliance Evaluation Inspection (CAFO)
Permit No. SOPCD-0004

Dear Mr. Smith:

On February 25, 2014 Ms. Angela Young and Mr. Justin Green performed a Compliance Evaluation Inspection of TRICOR-Dairy in Pikeville TN. The purpose of the inspection was to determine the facility's compliance with the terms and conditions of SOPCD-0004.

CEI Results

Permit

Permit Number SOPCD-0004 became effective on April 25, 2012. The General CAFO expires October 31, 2015.

Records and Reports

Copy of CNMP is kept on site. All records were intact and available for review. 2014 Annual report has been received by this office.

Comprehensive Nutrient Management Plan (CNMP)

TRICOR is following their CNMP

Manure Management

Manure is being land applied in accordance with the CNMP. Manure was currently being applied to field 6H at the time of the inspection. Operator was knowledgeable of necessary setbacks and kept pertinent records with him as was land applying the manure.

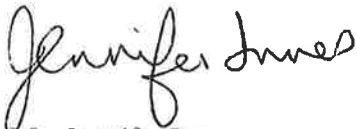
March 17, 2014

Page 2

The Division would like to thank Mr. Smith and Larry Williamson for their time and cooperation during our inspection.

We applaud TRICOR's efforts in providing job training and job skills to people that are incarcerated. Both gentlemen seemed passionate about their assignments at the dairy and were courteous and knowledgeable about their jobs. If you have any questions concerning our inspection, please contact Ms. Young at 634-5708.

Sincerely,

A handwritten signature in black ink that reads "Jennifer Innes". The signature is written in a cursive, flowing style.

Ms. Jennifer Innes
Program Manager
Division of Water Resources

Cc: Enforcement and Compliance, Division Water Resources, Nashville, TN (electronic)

Date	Loads	Gallons Pumped	Field Distributed	Date	Loads	Gallons Pumped	Field Distributed	Date	Loads	Gallons Pumped	Field Distributed
7/1	12	51600	21P	8/3	19	81700	6H			0	
7/6	10	43000	11H			0		10/6	9	38700	1C
7/7	13	55900	11H/9H			0		10/7	18	77400	24P
7/8	7	30100	9H			0		10/7	8	34400	24P
7/9	10	43000	11H			0		10/8	25	107500	24P
7/10	9	38700	9H			0		10/8	5	21500	1C
7/17	8	34400	9H			0		10/9	15	64500	1C
7/20	10	43000	6H/9H			0		10/12	15	64500	1C
7/27	19	81700	6H			0		10/14	17	73100	24P
7/28	18	77400	6H			0		10/14	10	43000	1C
7/29	19	81700	6H			0		10/15	15	64500	1C
7/30	13	55900	6H			0		10/17	35	150500	24P
7/31	14	60200	6H			0		10/19	13	55900	4H
		0				0		10/20	16	68800	3H
		0				0		10/21	11	47300	3H
		0				0		10/21	4	17200	5H
		0				0		10/22	8	34400	4H
		0				0		10/23	18	77400	5H
		0				0		10/23	2	8600	4H
		0				0		10/24	17	73100	5C
		0				0		10/30	10	43000	5H
		0				0		10/30	6	25800	11H
		0				0				0	
		0				0				0	
		0				0				0	
		0				0				0	
		0				0				0	
		0				0				0	
		0				0				0	
TOT LOADS:	162	Gallons: 696600.0	Field Distributed	TOT LOADS:	19	Gallons: 81700.0	Field Distributed	TOT LOADS:	277	Gallons: 1191100.0	Field Distributed
July-15				August-15				September-15			
Field Acreage			Field Acreage				Field Acreage				
21P-29.2			6H-17.6				1C-16.8				
6H-17.6							24P-15				
9H-32.5							4H-12				
11H-41.9							3H-15.5				
							5H-11.5				
							11H-41.9				
							5C-12				
Total: 121.2			Total: 17.6				Total: 124.7				

Date	Loads	Gallons Pumped	Field Distributed	Date	Loads	Gallons Pumped	Field Distributed	Date	Loads	Gallons Pumped	Field Distributed	Date	Loads	Gallons Pumped
11/23	13	55900	10H	12/9	16	68800	1C	1/4	13	55900	27P	2/6	12	51600
11/24	16	68800	10H	12/10	21	90300	1C	1/5	17	73100	27P	2/7	17	73100
11/25	17	73100	1C			0		1/6	11	47300	27P	2/18	10	43000
11/26	29	124700	24P			0		1/6	6	25800	26P	2/19	18	77400
11/27	12	51600	26P			0		1/7	12	51600	26P	2/20	42	180600
		0				0		1/7	9	38700	24P	2/21	16	68800
		0				0		1/12	11	47300	8H	2/22	15	64500
		0				0		1/13	14	60200	8H	2/22	7	30100
		0				0		1/14	14	60200	8H	2/28	17	73100
		0				0		1/15	18	77400	24P			0
		0				0		1/17	15	64500	6H			0
		0				0		1/31	12	51600	6H			0
		0				0				0				0
		0				0				0				0
		0				0				0				0
		0				0				0				0
		0				0				0				0
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		0				0				0				0
		0				0				0				0
		0				0				0				0
		0				0				0				0
TOT LOADS:	87	Gallons:		TOT LOADS:	37	Gallons:		TOT LOADS:	152	Gallons:		TOT LOADS:	154	Gallons:
November-15		374100.0		December-15		159100.0		January-16		653600.0		February-16		662200.0
Field Acreage			Field Acreage			Field Acreage			Field Acreage			Field Acreage		
10H-79.97			1C-16.8						27P-19			6H-17.6		
1C-16.8						26P-15			8H-12			4H-12		
24P-15						8H-26.4			1C-16.9					
26P-15						24P-15			11H-12					
						6H-17.6			24P-15.5					
Total: 126.77			Total: 16.8			Total: 93			Total: 74					

[illegible]

2016 Lagoon Levels

Shallow
1-20-16

Pump
Rain

Pumping

1/1/2016	0 + 7 "
1/8/2016	0 - 3 "
1/15/2016	0 - 13 "
1/22/2016	0 - 8 "
1/29/2016	0 - 4 "
2/5/2016	0 + 4 "
2/12/2016	0 "
2/19/2016	0 + 9 "
2/26/2016	0 + 2 "
3/4/2016	0 - 11 "
3/11/2016	0 - 30 "
3/18/2016	0 - 36 "
3/25/2016	
4/1/2016	
4/8/2016	
4/15/2016	
4/22/2016	
4/29/2016	
5/6/2016	
5/13/2016	
5/20/2016	
5/27/2016	
6/3/2016	
6/10/2016	
6/17/2016	
6/24/2016	

7/1/2016	
7/8/2016	
7/15/2016	
7/29/2016	
8/5/2016	
8/12/2016	
8/19/2016	
8/26/2016	
9/2/2016	
9/9/2016	
9/16/2016	
9/23/2016	
9/30/2016	
10/7/2016	
10/14/2016	
10/21/2016	
10/28/2016	
11/4/2016	
11/11/2016	
11/18/2016	
11/25/2016	
12/2/2016	
12/9/2016	
12/16/2016	
12/23/2016	
12/30/2016	

Annual Inspection Comments

Rick Smith

Supervisor

Date

12" safety zone
So + numbers do not
mean discharge

BCCX TRICOR Dairy Farm

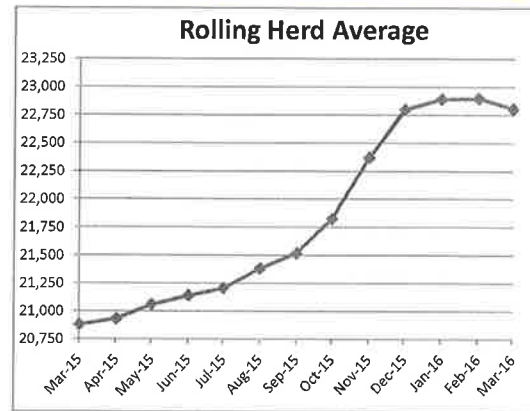
Farm Manager's Report

March 2016

Revenue	Month	YTD	Deviation from previous month	Live Births		Weather		
DFA Checks	\$ 3,563.28	\$ 151,504.66	-61.55%	Heifers	2	Condition	Month	FY YTD
TCC @\$0.30	\$ 52,499.70	\$ 604,091.70	-35.04%	Bulls	3	Rain (in.)	0.75	50.65
Cull Sales	\$ 5,190.78	\$ 109,193.10	-61.63%	Ratio	0.67	Rain (in.) Calendar YTD:		10.90
Steer Sales	\$ -	\$ 47,533.51	N/A	YTD Totals		Average Temperature 43.6°		
Crop Sales	\$ -	\$ 57,945.73	N/A	Heifers	73			
Other Income	\$ -	\$ 273.35	N/A	Bulls	77			
Total	\$ 61,253.76	\$ 970,542.05	-40.89%	Ratio	0.95			

Milk Production	Month	YTD	Previous Month	Deviation From Previous Month	
Milk Produced	222,176	3,147,949	311,004	(88,828)	↓
DFA Transfers	48,262	1,142,735	63,015	(14,753)	↓
TCC Transfers	174,999	2,013,639	269,409	(94,410)	↑
DFA Pricing	\$ -	\$ 12.15	\$ 13.31	(13.31)	↑
% of Milk To TCC	78.77%	63.97%	86.63%	-7.86%	↑
Lbs. Average/Day	7,284.46	Lbs. Average/Cow	1435.52		↓
Current Month Lbs./Cow per day			67.79		
Deviation from previous month Lbs./cow per day = + or (-)			(3.32)		

Manure Distribution	Gallons/Tons Spread		Acres Covered Current Month
	Month	YTD	
Liquids (Gal.)	791,200.0	4,609,600.0	N/A
Solids (Tons)	-	312.0	N/A



Commodity	Harvested/Purchased		Usage	
	Month	YTD	Month	YTD
Silage (ton)		2,595.040		1,651.610
Fescue (Dry Hay)(ea.)		490.000		526.000
23% Dry Cow (ton)		42.9665	4.500	43.967
Mash Feed	48.7000	270.9100	60.700	267.910
Energy (ton)		201.0765		207.077
Protein (ton)		177.1975		179.198
14% Heifer (ton)	11.9585	147.3190	20.959	147.319
Primer I (ton)	12.1600	90.0200	12.910	94.020
Milk Replacer (ton)		5.0000	1.0200	5.3900
Minerals (ton)	2.00	10.00	2.7800	11.2500
Wrapped Hay (ea.)			15.000	424.000
Crops	Acres Planted		Acres Harvested	
	Month	YTD	Month	YTD
Corn	-	-	-	200.0
Soy Bean	-	-	-	156.0
Hay (Rye/Fescue/Wheat)	-	131.5	-	194.6
Purchased Feed Savings Due to Silage Use	Month	YTD	Deviation From Previous Month	
	\$ 985.22	\$ 10,479.56	-\$514.81	
Feed Cost per Milk Group	Feed Cost/Milking Cow		Deviation From Previous Month	
\$23,856.80	\$154.14		(\$33.93)	
Feed Cost per Dry Group	Feed Cost per Dry Cow		Deviation From Previous Month	
\$3,069.54	\$139.52		(\$6.78)	
Feed Cost Heifer/Steer Groups	Feed Cost per Heifer/Steer		Deviation From Previous Month	
\$12,462.05	\$50.05		\$13.93	
Total Feed Cost	Feed Cost per lb. of Milk		Deviation From Previous Month	
\$39,388.39	\$0.11		\$0.01	
Feed Cost Per Milking Cow per Day	Current Month		Deviation From Previous Month	
	\$5.05		(\$1.11)	

4 Week Pay Period Feb. 21 thru Mar. 19, 2016			
Inmate Hrs.		Inmate Pay	
Reg. Hrs.	6,509.5	Reg. Pay	\$6,711.45
Class Hrs.	43.5	Class Pay	\$47.25
Total Hrs.	6,553.0	Total Pay	\$6,758.70
Average Hours Per Inmate Per Month		Average Hours Per Inmate Per Week	
187.23		37.45	

Diesel Fuel			
Purchased (Gal.)		Usage (Gal.)	
Month	YTD	Month	YTD
800.0	11,335.6	827.0	10,584.6
Previous Month Usage:			798.4
Deviation From Previous Month:			28.6

File
TRICOR BCCY
Daeny

2016 1st Quarter Manure Applications

Team;

According to our Nutrient Management Plan, manure applications will be made to the locations listed below.

January.....None

February.....Field 8C..... 145.2 loads liquid

March.....Field 5C..... 17.5 loads Solids

*Load average 4,300 gallons liquid

* Load average 12,000 lbs. solids

2016 3rd Quarter Manure Applications

Team;

According to our Nutrient Management Plan, manure applications will be made to the locations listed below.

July.....None

August.....None

September.....None

*Load average 4,300 gallons liquid

* Load average 12,000 lbs. solids

2016 4th Quarter Manure Applications

Team;

According to our Nutrient Management Plan, manure applications will be made to the locations listed below.

October.....Field 9C..... 18.7 loads solids

Field 2C.....5.8 Loads Solids

Field 7H.....140.2 Loads Liquid

Field 6H.....9.2 Loads Liquid

November.....None

December.....None

*Load average 4,300 gallons liquid

* Load average 12,000 lbs. solids

2016 2nd Quarter Manure Applications

Team;

According to our Nutrient Management Plan, manure applications will be made to the locations listed below.

April

Field 6C..... 185.5 loads liquid

7C.....37.2 loads liquid

May.....None

June.....None

*Load average 4,300 gallons liquid

* Load average 12,000 lbs. solids